

Title (en)

FILLING HEAD FOR RELIABLE SPLASH-FREE FILLING

Title (de)

FÜLLKOPF ZUR ZUVERLÄSSIGES SPRITZFREIES BEFÜLLEN

Title (fr)

TÊTE DE REMPLISSAGE PERMETTANT UN REMPLISSAGE FIABLE SANS ÉCLABOUSSURE

Publication

**EP 4096950 C0 20240320 (EN)**

Application

**EP 21701548 A 20210129**

Priority

- EP 20154884 A 20200131
- EP 2021052077 W 20210129

Abstract (en)

[origin: WO2021152071A1] The invention relates to a filler head (13) for a storage system (1) comprising a body (15) to be mounted inclined according to a predetermined angle ( $\alpha$ ) regarding the gravity direction (G), called the filling direction (F), and including a main part (17) closed by a cover part (19) so as to form a cavity (20) in which a separating device (21) is received, the filler head (13) being configured to receive, in a cylindrical wall (23) of the separating device (21) extending around the filling direction (F), a distribution nozzle of a fluid with an automatic stop sensor (39a, 39b) to prevent overfilling of the filler head (13), the separating device (21) being arranged to improve the partitioning of a flow (V) coming from a venting line and the flow (F) going to the filling line. According to the invention, the separating device (21) further comprises at least one flange (25), protruding transversally from the outside surface of the cylindrical wall (23) and mounted in the cavity (20) upstream of the sensor (39a, 39b) of the nozzle when received in the cylindrical wall (23) and considering the filling direction (F), so as to ensure the fluid outgoing from the nozzle present in the filler head (13) has limited possibility to spit back from the filler head (13) without affecting the sensor (39a, 39b) work.

IPC 8 full level

**B60K 13/04** (2006.01); **B60K 15/035** (2006.01); **B60K 15/04** (2006.01)

CPC (source: EP US)

**B60K 13/04** (2013.01 - EP); **B60K 15/03** (2013.01 - US); **B60K 15/035** (2013.01 - EP US); **B60K 15/04** (2013.01 - EP US); **B60K 15/077** (2013.01 - US); **B60K 2015/03368** (2013.01 - EP US); **B60K 2015/0346** (2013.01 - EP US); **B60K 2015/03538** (2013.01 - EP US); **B60K 2015/0458** (2013.01 - EP US); **Y02A 50/20** (2018.01 - EP); **Y02T 10/12** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Participating member state (EPC – UP)

AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)

**WO 2021152071 A1 20210805**; CN 114845897 A 20220802; CN 114845897 B 20230505; EP 4096950 A1 20221207; EP 4096950 B1 20240320; EP 4096950 B8 20240515; EP 4096950 C0 20240320; JP 2023504934 A 20230207; JP 7274054 B2 20230515; US 11597272 B2 20230307; US 2023030036 A1 20230202

DOCDB simple family (application)

**EP 2021052077 W 20210129**; CN 202180006950 A 20210129; EP 21701548 A 20210129; JP 2022544379 A 20210129; US 202117789719 A 20210129